



Loudoun County

VIRGINIA

WHERE TRADITION MEETS INNOVATION

Countywide Transportation Plan On Our Way to 2040

Board of Supervisors 2021 Transportation Summit
June 29, 2021

Loudoun County Transportation Planning

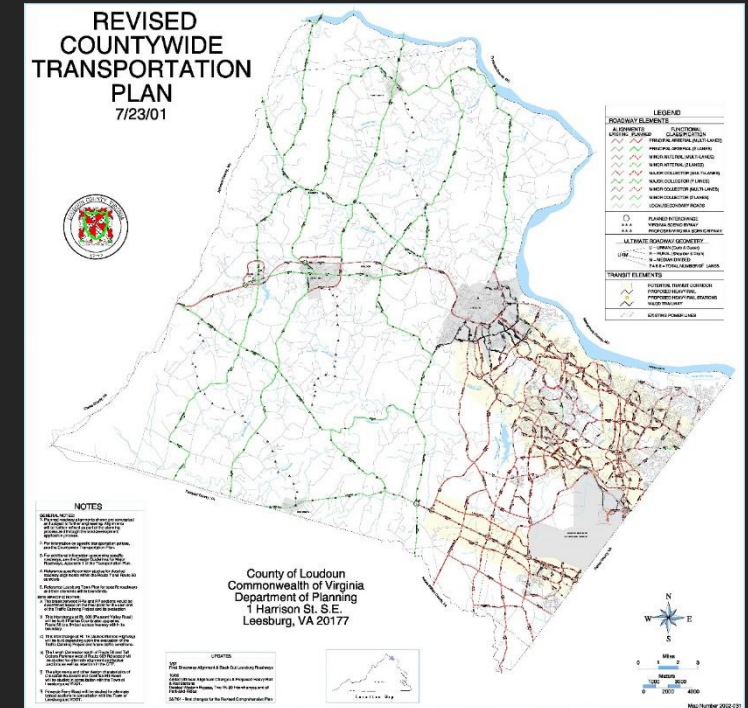
- Loudoun County is one of the fastest growing counties in the nation and is the fastest growing county in the Commonwealth of Virginia.
- Transportation continues to be one of the most important services provided by government, fulfilling the crucial role of linking people to their jobs, schools, recreation and shopping.

Transportation Planning History in Loudoun County

- Pre: 1995 Area Management Plans
- 1995: The first Countywide Transportation Plan was adopted.
 - Focused primarily on creating mobility to support planned suburban development.
 - Created the framework for subsequent countywide and small area transportation plans.
 - Contributed to defining the current roadway network.

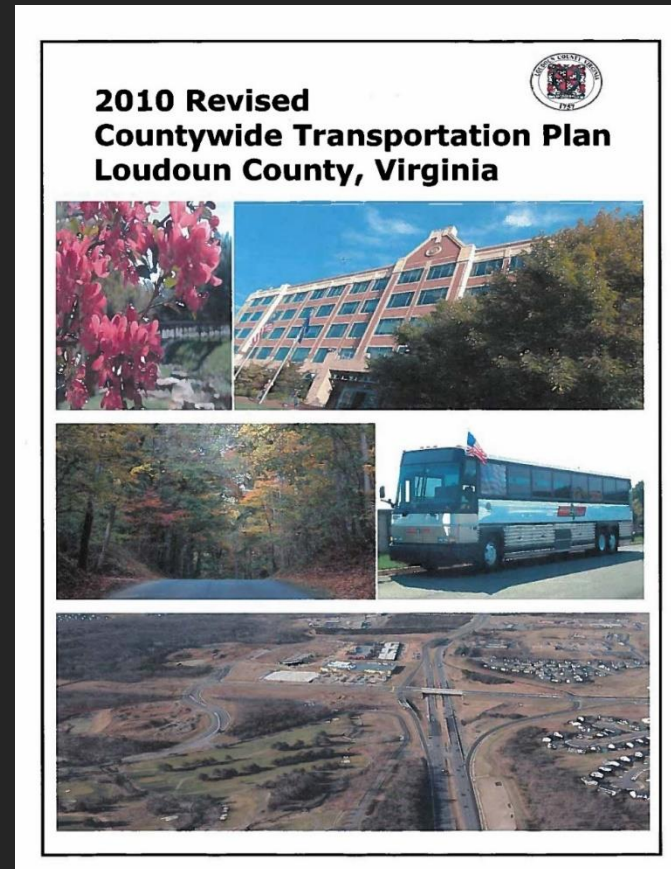
2001– Countywide Transportation Plan

- Included changes from the 1995 CTP based revisions to the General Plan and certain area plans
- Removed planned bypasses of Aldie, Hamilton, Lovettsville, Middleburg, and Purcellville
- Incorporated plans for Metrorail service to Loudoun County
- Truncated the north-south spine road South of Leesburg at US Route 50
- Retained several 6+ lane facilities from the 1995 CTP



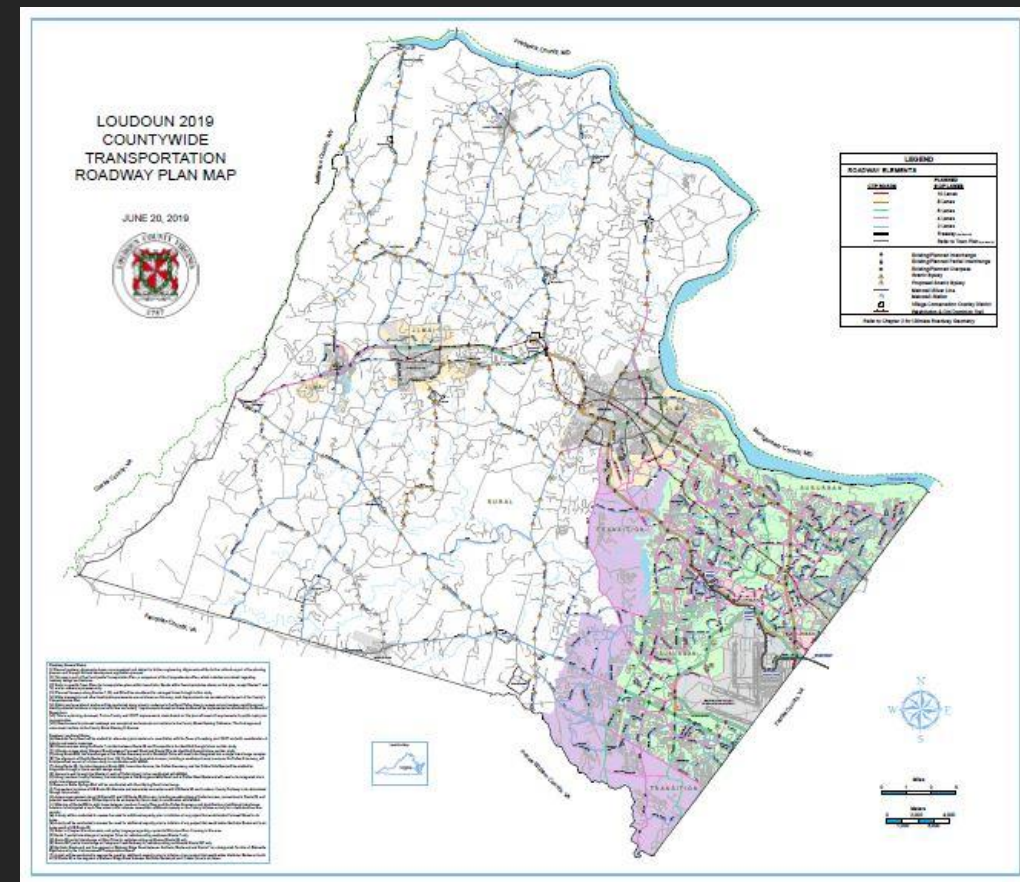
2010 CTP – Countywide Transportation Plan

- Established long-range vision for the County's transportation network.
- Provided a robust and efficient network to support the 2001 Revised General Plan.
- Protected and sought to enhance the rural character of the roads in the Rural Policy Area.
- Introduced policies for transit, bicycle and pedestrian accommodations.
- Financially unconstrained plan based on mobility, access, safety and efficiency goals



Loudoun County 2019 CTP

- Vision for Transportation
- Countywide Transportation Network
- Built Environment & Geographic Policy Areas
- Air Travel
- Mitigating Impacts of Development
- Regional, State & Local Coordination
- Environmental & Heritage Resources
- Prioritization & Funding
- Implementation



2019 CTP - Policy Intent

- This plan strives for:
 - Greater clarity
 - Streamlined policies
 - Greater flexibility where appropriate
 - Maintenance of supportable policy goals
 - More context-sensitive transportation planning
 - Improved integration with the General Plan

Chapter 1: Vision for Transportation

- Project Description
- Basis for the Plan
- Background Information
- Foundations for the Plan
- Public Input
- Vision and Goals
- Transportation Objectives

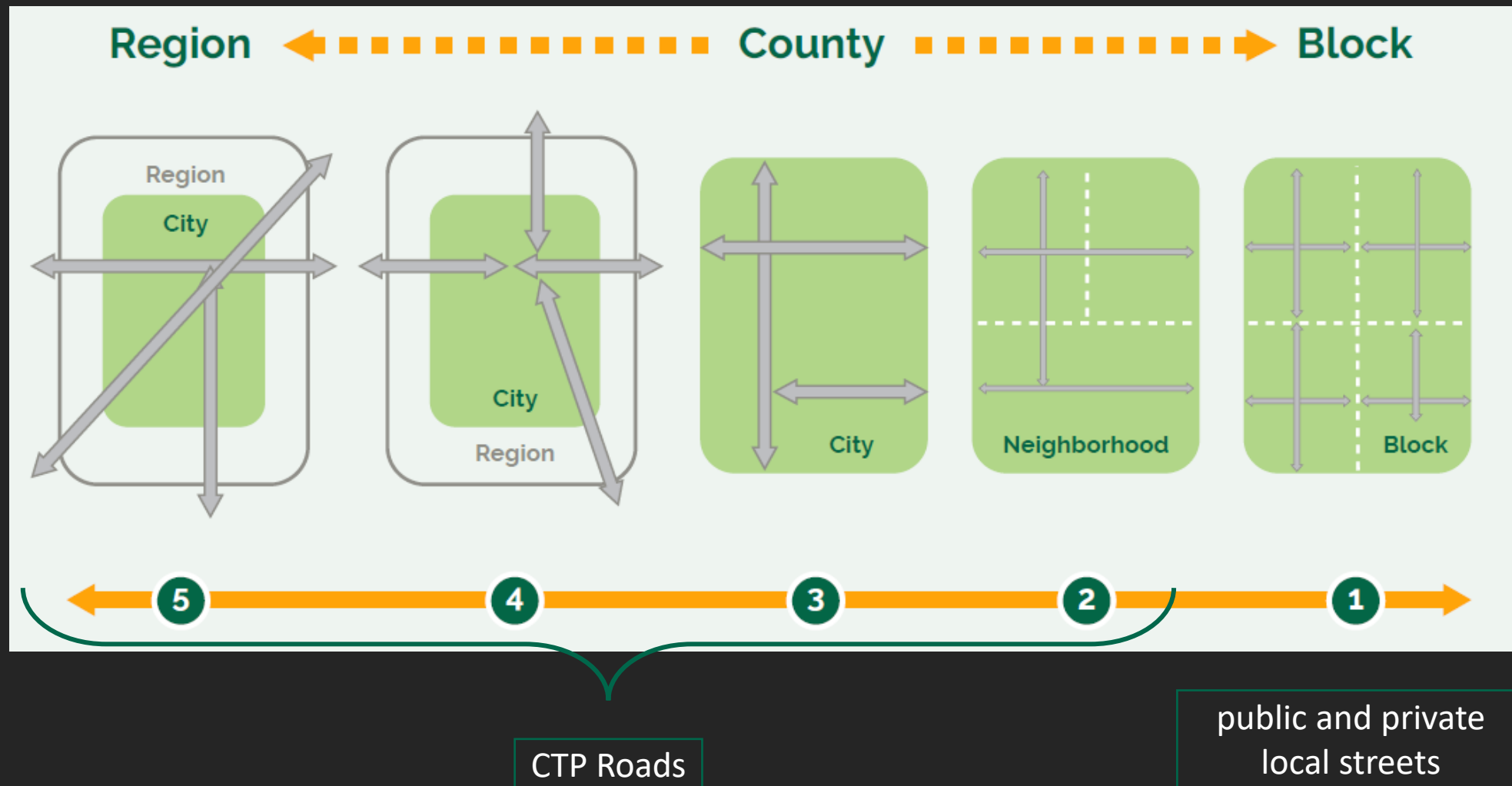


Chapter 2: Countywide Transportation Network

- Motor Vehicle Plan
- Bicycle Network
- Pedestrian Network
- Transit Infrastructure Plan
- General Characteristics of Roadways
 - *Functional Classification*
 - *Street Sections*



Roadway Planning – Street Function



Travel Demand Modeling Process

- Model Components
 - Roadway Network
 - Traffic Analysis Zones (TAZs)
 - Socioeconomic Data
 - Other Inputs
- Model Steps
 - Trip Generation
 - Trip Distribution
 - Mode Choice
 - Trip Assignment

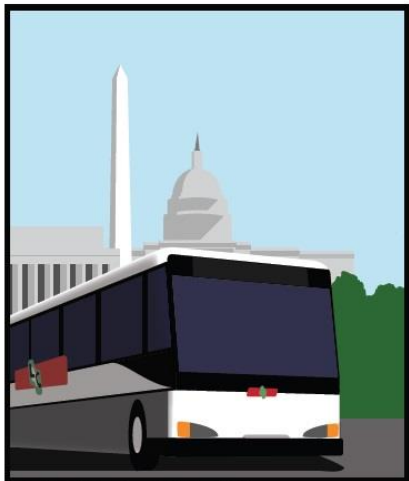


Network Development Bicycle & Pedestrian

- Combination of 2003 Bike/Ped Plan and 2010 CTP concepts and policies
- Calls for facilities on nearly all roads in the Suburban and Transition Policy Areas, with more robust facilities on CTP Roads
- Identifies specific roadways where on-road bike lanes are appropriate
- Includes Regional Trail Network (off-road corridors)

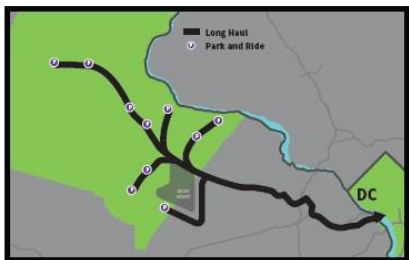


Network Development Transit Facilities and Services Planning



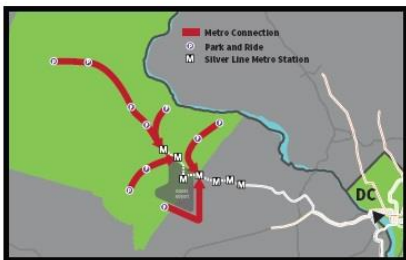
LONG HAUL

Direct service from park and rides to Washington, DC



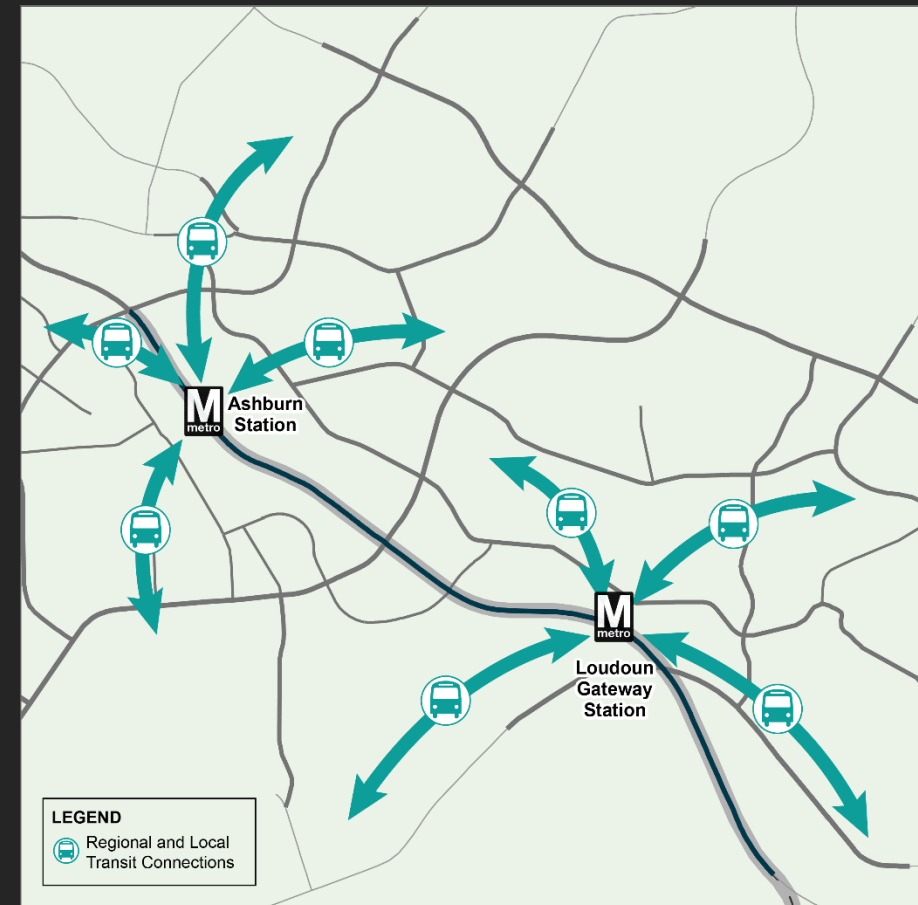
METRO CONNECTION

Direct service from park and rides to Metro Stations



LOCAL BUS

Circulates through the county stopping at bus stops, Metro stations and park and rides



Chapter 3:

Built Environment & Geographical Policy Areas

- Overview of Context-Sensitive Transportation Planning*
- Policies by Theme & Area
- Urban Policy Area
- Suburban Policy Area
- Transition Policy Area
- Rural Policy Area
- Towns & Joint Land Management Areas



*(Discussion of the Relationship Between Infrastructure Design and the Built Environment)

Chapter 4: Air Travel

- Washington Dulles International Airport (IAD)
- Leesburg Executive Airport (JYO)
- Private Air Travel Facilities



Chapter 5: Mitigating the Impacts of Development

- Land Development Review
- Traffic Studies
- Proffers
- Traffic Management and Operations



Chapter 6: Regional, State & Local Coordination

- Regional
 - TPB, MWCOG, NVTA, NVTC
- State
 - CTB, VDOT, DRPT
- Local
 - Neighboring Counties and Towns
- Homeland Security Evacuation Preparedness



Northern Virginia Transportation Authority



Chapter 7: Environment & Heritage Resources

- Air Quality
- Water Quality
- Noise Exposure
- Heritage Resources



- Identifies Priority Project Types
- Guides Capital Improvement Planning Discussions
- Funding Sources and Mechanisms



Chapter 8: Prioritization & Funding

- Capital Program Development (CIP & SYIP)
 - Safety, Operations & Missing Links
 - Support & Partner with Land Use / Economic Development
 - Policy / Policy Areas & Metrorail Station Areas
 - Complete Streets, Sustainability & Equity
- Modal, Safety & Emphasis Area Examples
 - Sidewalk & Trail Gap Analyses
 - Intersection Improvement Program
 - Strategic Housing Plan and more...

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Chapter 9: Implementation

- Steps the County should take following Adoption of 2019 CTP
 - Each related to a Transportation Goal from Chapter 1
- Appendices and Supporting Documents
 - Roadway Segments
 - Travel Demand Model Results
 - Data Analysis
 - Other Related Material





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Loudoun County 2019 Countywide Transportation Plan

For More Information Visit the Plan's Website:

www.loudoun.gov/ctp